



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Logistics management

### Course

Field of study

Logistics

Area of study (specialization)

Corporate Logistics

Level of study

Second-cycle studies

Form of study

part-time

Year/Semester

1/2

Profile of study

general academic

Course offered in

Polish

Requirements

elective

### Number of hours

Lecture

14

Laboratory classes

Other (e.g. online)

Tutorials

14

Projects/seminars

### Number of credit points

4

### Lecturers

Responsible for the course/lecturer:

Prof. Marek Fertsch, Ph.D., D.Sc., Eng.,

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Faculty of Engineering Management

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Responsible for the course/lecturer:

### Prerequisites

The student starting this subject should have a basic knowledge of logistics logistics engineering & supply chain management. He should also be able to obtain information from specified sources and be willing to cooperate as part of a team.

### Course objective

Mastering the student's knowledge, skills and social competences related to supply chain design

### Course-related learning outcomes

Knowledge

1. Student knows extended issues related to logistics management [P7S\_WG\_08]



2. Student knows detailed methods, tools and techniques specific to logistics management [P7S\_WK\_01]
3. Student knows the conditions for the functioning of companies as participants in logistics processes and the strategies of their operation related to logistics management [P7S\_WK\_02]
4. Student knows the best practices related to logistics management [P7S\_WK\_04]

#### Skills

1. Student is able to collect, based on the literature on the subject and other sources (in Polish and English) and present in an orderly manner, information on problems related to logistics management [P7S\_UW\_01]
2. Student is able to communicate using appropriately selected means in a professional environment and in other environments within logistics and its specific issues related to logistics management [P7S\_UW\_02]
3. Student is able to critically analyze technical solutions used in the analyzed logistics system (in particular with regard to devices, facilities and processes) related to logistics management [P7S\_UW\_04]
4. Student is able to assess the usefulness and possibility of using new achievements (techniques and technologies) related to logistics management [P7S\_UW\_06]
5. Student is able to prepare a well-documented study of problems related to logistics management in Polish and English at the B2 level of the Common European Framework of Reference for Languages [P7S\_UK\_02]

#### Social competences

1. Student correctly identifies and resolves dilemmas related to the profession of logistics manager, observing the principles of professional ethics and respecting the diversity of views and cultures [P7S\_KK\_02]
2. Student is able to plan and manage creatively business ventures [P7S\_KO\_01]
3. Student is aware of responsibility for one's own work and is ready to obey the principles of teamwork and take responsibility for jointly performed tasks [P7S\_KR\_01]

#### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

assessment based on a team-developed project,

grade based on written credit (exam)

#### Programme content

Lecture: Supply chain as a logistics system. Supply chain design reference models. Designing logistics systems. Choosing a supply chain strategy. Strategic analysis. Krajlic, Cox, Saunders models. Olsen and Ellram model, assessment of the functioning of the supply chain. Supply chain configuration: Supply



chain configuration theories. Balance methods in supply chain design. Supply chain dimensions. Simulation methods in supply chain design. Physical system design: identification of available alternatives, data collection and use, selection of methods and techniques for analyzing alternatives, selection of criteria for assessing alternatives, analysis of results.

Project: In the design class, students design the supply chain specified by the lecturer.

### Teaching methods

1. Lecture: multimedia presentation, illustrated with examples on the board. 2. Projects: multimedia presentation illustrated with examples given on the board and performance of tasks given by the teacher.

### Bibliography

#### Basic

1. Fertsch M., Zarządzanie logistyką, Wydawnictwo Politechniki Poznańskiej, Poznań, 2012
2. Fertsch M., Struktury organizacyjne dla potrzeb logistyki [w:] Kisperska –Moroń D., Krzyżaniak St. (red.), Logistyka, Wydawnictwo Instytutu Logistyki i Magazynowania, Poznań, 2009.
3. Dębińska – Cyran I. (red.), Zarządzanie logistyką w warunkach polskich, Difin, Warszawa 2004.
4. Coyle J.J., Bardi E.j. LAnglely Jr C.J., Zarządzanie logistyczne, Państwowe wydawnictwo Ekonomiczne, Warszawa, 2002

#### Additional

1. Beyer F., Rutkowski H., Logistyka, , SGH, Warszawa , 1994
2. Pfohl H.-Ch., Zarządzanie logistyką, ILiM, Poznań, 1998

### Breakdown of average student's workload

	Hours	ECTS
Total workload	100	4,0
Classes requiring direct contact with the teacher	28	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) <sup>1</sup>	72	3,0

<sup>1</sup> delete or add other activities as appropriate